VERIFICATION OF TRANSLATION

I, Andreas Oser, of Gistlstrasse 100 B, D-82049 Pullach, Germany, do hereby verily declare that the attached document is a true translation of German Application No. DE 20 2004 003 054.3

Title:

SPORTS DEVICE

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I hereby declare that all statements made herein of my own knowledge are true and that all statements are made on information and belief are believed to be true; and further that these statements are made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Signed this September 16, 2008

Andreas Oser

SPORTS DEVICE

The present invention relates to a sports device or sports equipment comprising an elongated body. The sports device is particularly suited for training, playing and/or exercising purposes.

So-called expanders are examples for sports devices or sports equipments comprising two handles, between which pullable elastic strings are arranged.

From DE 34 38 668 A, a sports device comprising two handles is known, which are mutually connected by means of a flexible electric conductor.

Furthermore, there exists floating devices comprising elongated bodies. However, these are not or hardly suitable for training or exercising purposes.

It is an object of the present invention to provide a new sports device, with which the whole human body can be trained in an efficient manner.

The object is solved by a sports device according to claim 1. Preferred embodiments of the sports device of the invention are defined in the sub-claims to claim 1. Furthermore, the invention provides an assembly comprising the sports device according to the invention.

Owing to the property of elastic flexibility from the longitudinal direction of the body as well as by the disposition of the handles, which respectively can accommodate hands and/or

feet of a human person, the longitudinal body can be bent out of the original position or resting position by the force imparted by means of the handles, and subsequently can return again elastically (resilient or springly) into the original position or resting position. In addition to the elastic flexibility, the body itself and/or the handles attached to it may be elastically pullable or stretchable at the same time.

With the sports device according to the present invention, a variable training of the whole human body is enabled by using hands and/or feet at the same time. In addition, further advantages in comparison with the sports devices as mentioned above as well as in comparison with other conventional sports devices exists: the sports device according to the invention can be handled easily, it enables a physiologically favorable whole body training by one device only, and it may optionally be provided with a low dead weight. The sports device according to the invention opens new training possibilities in the field of coordination and balance and thus is well suited for rehabilitation purposes.

The principle of the present invention and the preferred embodiments thereof will be described in the following in further detail.

The sports device according to the invention comprises a (main) body, that constitutes a form defined by faces on all sides and that is elongated, i.e. has a length-to-width (aspect) ratio of higher than 1, preferably more than 10:1. Thus, the elongated body has in its resting position, i.e. in a nonflexed status, preferably the form of a cylinder. Other elongated forms such as cuboid, a bend elongated body, a prisma and the like are also possible. Furthermore, the elongated

body may be designed in its shape, in its resting position, by its a cross-section such that the cross-section, at least in a portion, preferably principally and above all essentially along the whole length, has a form of a circle, a half circle, a rectangle, a square, an arbitrary polygon, a thrombus, a kite form, a trapezoid or the like. The size of the main body in resting position is preferably adjusted for providing favorable variable exercising possibilities such that the different handles of the sports device, namely both in the resting position and during operation, can properly accommodate the different hands and/or feet of the human person in a mutually separate manner. The width of the main body for example is about 2 to 15 cm, preferably about to 5 to 12 cm, and the length is for example about 40 to 150 cm, preferably about 50 to 100 cm.

The ends of a preferred elongated body are suitably designed in a planar or round manner.

In order to improve the visibility or the aesthetic appearance, the surface of the body is preferably colored. In particular, a signal color may be selected.

The desired elastic flexibility of the body from its longitudinal direction may be controlled and adjusted as described above by the elongated form, the cross-section of the body and/or by the selection of a suitable material of the body. As to the materials for the body, metals, metal alloys, composite materials and in particular plastics are contemplated, while multiple materials may be combined, and wherein the material (or the materials) may be present in the whole volume or - e.g. in a circumferential shell or in the core with one type of material on the one hand and in a circumferential envelope

with another type of material on the other hand - a portion of the volume. In addition to the elastic flexibility, the material for the body may at the same time be stretchable.

In a particularly preferred embodiment, the elongated body of the sports device according to the invention is designed as a swimming float. For this purpose, the elongated body is formed mainly or essentially from a material effecting buoyancy in water. As materials for effecting buoyancy, closed-cell foams are particularly suitable. Preferred base materials for the closed-cell foam substance are polyolefin (polyethylene or ethylene/vinylacetat-copolymers, particularly Evazote^R), polyurethane, polystyrene and styrene-copolymers.

The handles directly or indirectly serve for accommodation or for being engaged with hands and/or feet of the person operating the sports device. Thereby, hands and/or feet, and in particular both the hands and the feet can be chosen independently from each other for grasping or holding the handles. According to a preferred development of the sports device of the invention, handles are disposed at ends or close to the ends of the flexible body, specifically at respectively opposite ends of the elongated body, in order to facilitate the operation and to improve whole body training. Preferably, the handles are not formed integrally with the main body itself, but separately or externally - respectively identical or mutually different - especially in the form of hoops and/or loops that are attached by suitable elements to the main body. A suitable attachment of the separate handles, in particular of the hoops and/or loops, is preferably effected via borings, which suitably exist at the ends or close to the ends. For providing handles in a form of hoops, these are preferably made for example of solid, non-stretchable material such as metal, a wire or

wire coil or hard plastic. In a preferred embodiment the handle is formed in the form of a flexible, in particular stretchable loop in order to further improve exercising possibilities of the sports device. For example, a fiber fabric, a band of cloth, an elastomer and in particular an elastically stretchable plastic material such as a band made of latex or silicone may serve as the flexible material for the hoop and/or the loop of the handle. The hoop or the loop is suitably drawn through the aforementioned boring of the flexible body. In order to improve the flexibility of the sports device, the length of the hoop or the loop is preferably adjusted such that the hoop or the loop may be pulled over respective ends of the flexible body to the other side of the body.

In order to improve a feeling or a grasping capability, the handles, such as the afore mentioned hoops or loops, are enclosed at least partially, in any event in the handle portion, by a cushion made of soft material, e.g. Neopren^R or anyone of foam materials already mentioned above.

For guiding the external handles such as the aforementioned hoops or loops, tube elements, which are e.g. made of plastics, are suitably provided in the respective borings transverse to the main direction of the flexible body. The tube elements in the borings facilitate guiding the handles and additionally protect the flexible body, optionally made of soft materials, from tearing.

By means of the preferred features of the sports device of the invention described above, provided alone or in combination, a sports and animation device is created, with which multiple gymnastic exercises may be carried out. Depending on the op-

tional design of the described measures, the sports device may be used as a training device, a stretching device and/or a massage device. The sports device may be operated by means of the handles by one or more persons with hands and/or feet, through one-sided and/or both-sided applicable or with concurrent grasping/holding. Depending on the selection of the material for the main body, the sports device of the invention is variably useable, for example solely for dry use when the base material has a negative buoyancy, but on the other hand advantageously, if desired in addition, for gymnastic exercises in aquatic sports when the base material has a positive buoyancy. In the latter case, and when properly designed in the form of a swimming float, the sports device according to the invention may serve both as a buoyant assisting tool as well as for increasing a mechanical resistance.

According to another aspect of the present invention, the sports device of the invention as described above is combined with at least one standing holder in an assembly which is advantageous in practice. The assembly may be simply accomplished by inserting the elongated body of the sports device of the invention into at least one standing holder.

The present invention will be explained in more detail, in connection with drawings, by illustrative, preferred embodiments, which however are not to be understood in a limitive manner, wherein

- Fig. 1A shows a sports device according to the invention schematically in a resting position, and
- Fig. 1B shows the sports device according to the invention schematically during operation in a partially bended

position according to a preferred embodiment of the invention; and

Fig. 2A and 2B respectively schematically show an assembly of the invention comprising the sports device and two or one standing holders.

The sports device according to the invention, respectively shown in Fig. 1A in a resting position and in Fig. 2B during operation, comprises an elongated (main) body 1 in cylindrical form having rounded ends 1a and 1b. Here, the elongated body 1 is specifically made of a closed-cell foam material, 8 cm in width and 80 cm in length, having a signal blue color visible at the surface 7. Close to the respective ends, transverse to the longitudinal direction through the cylindrical body, borings 2 are disposed, into which plastic tube elements 6 are respectively inserted. Elastic bands 5 in the form of loops are drawn through respective boring elements 6. The elastic bands 5, together with a cushioning 4 provided in the handle section, from the respective separate handles 3 of the sports device. Hands or feet, which are schematically illustrated in Fig. 1B by reference signs 8 and 9, can easily grasp or hold these separate handles 3 and can impart a force onto the elongated body (illustrated in Fig. 1B by respective arrows at 8 and 9 in an exemplified manner) in order to bend the body out of the longitudinal axis illustrated by a dashed line. By the elasticity inherent to the body material, the body 1 is capable of springing, from the flexed status (Fig. 1B), again back into the starting position or resting position in an elastic manner. Owing to a possible, additional elasticity existing in the longitudinal direction - which optionally exists only or mainly with respect to the elastic bands 5 -, the sports device may also be optionally stretched. In case of the embodiment according to Fig. 1A/1B, the pulling movements and/or stretching movements are additionally assisted by the stretching property of the elastic bands 5.

Since the flexible body 1 is formed of a foamed material having a buoyant power generated in water, the sports device shown in Fig. 1A/1B may be concurrently used advantageously for training, playing and/or exercising purposes in water.

In Fig. 2A and 2B, examples for assemblies are shown, composed of the sports device of the invention including the (main) body 1, and respectively two (see Fig. 2A) or one (see Fig. 2B) standing holder(s) 10. The standing holders 10, which are formed of a suitable material such as plastic or metal, have corresponding recesses, into which respective ends of the cylindrically formed main body 1, as shown in Fig. 2A, or the middle portion of the cylindrical main body 1, as shown in Fig. 2B, are/is inserted by suitable engagement.

The sports device of the invention is by no means limited to the embodiments illustrated in the drawings or described above. Rather, various changes of the sports device are possible, e.g. with respect to embodying other materials, forms and sizes of the body, the type and the structure of the handles, the addition of further handles, the mounting of other technical and/or aesthetic elements, etc.